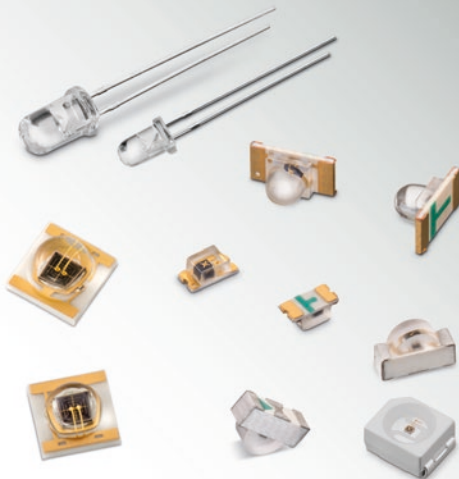




## DESIGN KIT

### Infrared LEDs



#### SIZE:

3 mm / 5 mm / 0603 / 1206 / 1104 / 3528 / 3535

#### TECHNICAL DATA:

THT Infrared  
Infrared Chip LED  
Infrared Top LED  
Infrared Ceramic

**Order Code 154 150**  
**Version 1.0**

# DESIGN KIT

## Infrared LEDs



3 mm	0603	1104	3528	3535
<b>154 003 85A 3590</b>	<b>154 060 85B A300</b>	<b>154 114 85A A370</b>	<b>154 141 85B A210</b>	<b>154 353 85A 9050</b>
$\lambda_{\text{peak}}$ @ 50 mA: 850 nm	$\lambda_{\text{peak}}$ @ 20 mA: 850 nm	$\lambda_{\text{peak}}$ @ 20 mA: 850 nm	$\lambda_{\text{peak}}$ @ 50 mA: 850 nm	$\lambda_{\text{peak}}$ @ 1000 mA: 850 nm
$I_e$ typ. @ 50 mA: 60 mW/sr	$I_e$ typ. @ 20 mA: 2 mW/sr	$I_e$ typ. @ 20 mA: 2 mW/sr	$I_e$ typ. @ 50 mA: 9 mW/sr	$I_e$ typ. @ 1000 mA: 350 mW/sr
$V_f$ typ. @ 50 mA: 1.5 V	$V_f$ typ. @ 20 mA: 1.4 V	$V_f$ typ. @ 20 mA: 1.4 V	$V_f$ typ. @ 50 mA: 1.5 V	$V_f$ typ. @ 1000 mA: 2.2 V
$2\theta_{50\%}$ typ. @ 50 mA: 35 °	$2\theta_{50\%}$ typ. @ 20 mA: 130 °	$2\theta_{50\%}$ typ. @ 20 mA: 130 °	$2\theta_{50\%}$ typ. @ 50 mA: 120 °	$2\theta_{50\%}$ typ. @ 1000 mA: 90 °
<b>154 003 94A 3590</b>	<b>154 060 94B A500</b>	<b>154 114 94A A570</b>	<b>154 141 94B A210</b>	<b>154 353 94A 9050</b>
$\lambda_{\text{peak}}$ @ 50 mA: 940 nm	$\lambda_{\text{peak}}$ @ 20 mA: 940 nm	$\lambda_{\text{peak}}$ @ 20 mA: 940 nm	$\lambda_{\text{peak}}$ @ 50 mA: 940 nm	$\lambda_{\text{peak}}$ @ 1000 mA: 940 nm
$I_e$ typ. @ 50 mA: 30 mW/sr	$I_e$ typ. @ 20 mA: 0.8 mW/sr	$I_e$ typ. @ 20 mA: 1 mW/sr	$I_e$ typ. @ 50 mA: 8 mW/sr	$I_e$ typ. @ 1000 mA: 300 mW/sr
$V_f$ typ. @ 50 mA: 1.3 V	$V_f$ typ. @ 20 mA: 1.2 V	$V_f$ typ. @ 20 mA: 1.2 V	$V_f$ typ. @ 50 mA: 1.4 V	$V_f$ typ. @ 1000 mA: 1.9 V
$2\theta_{50\%}$ typ. @ 50 mA: 35 °	$2\theta_{50\%}$ typ. @ 20 mA: 150 °	$2\theta_{50\%}$ typ. @ 20 mA: 150 °	$2\theta_{50\%}$ typ. @ 50 mA: 120 °	$2\theta_{50\%}$ typ. @ 1000 mA: 90 °
5 mm	1206 dome			
<b>154 005 85A 3590</b>	<b>154 120 85A 3060</b>			<b>154 353 85A A350</b>
$\lambda_{\text{peak}}$ @ 50 mA: 850 nm	$\lambda_{\text{peak}}$ @ 20 mA: 850 nm			$\lambda_{\text{peak}}$ @ 1000 mA: 850 nm
$I_e$ typ. @ 50 mA: 85 mW/sr	$I_e$ typ. @ 20 mA: 20 mW/sr			$I_e$ typ. @ 1000 mA: 250 mW/sr
$V_f$ typ. @ 50 mA: 1.5 V	$V_f$ typ. @ 20 mA: 1.4 V			$V_f$ typ. @ 1000 mA: 2.2 V
$2\theta_{50\%}$ typ. @ 50 mA: 35 °	$2\theta_{50\%}$ typ. @ 20 mA: 30 °			$2\theta_{50\%}$ typ. @ 1000 mA: 130 °
<b>154 005 94A 3590</b>	<b>154 120 94A 3060</b>			<b>154 353 94A A350</b>
$\lambda_{\text{peak}}$ @ 50 mA: 940 nm	$\lambda_{\text{peak}}$ @ 20 mA: 940 nm			$\lambda_{\text{peak}}$ @ 1000 mA: 940 nm
$I_e$ typ. @ 50 mA: 30 mW/sr	$I_e$ typ. @ 20 mA: 5 mW/sr			$I_e$ typ. @ 1000 mA: 220 mW/sr
$V_f$ typ. @ 50 mA: 1.3 V	$V_f$ typ. @ 20 mA: 1.2 V			$V_f$ typ. @ 1000 mA: 1.9 V
$2\theta_{50\%}$ typ. @ 50 mA: 35 °	$2\theta_{50\%}$ typ. @ 20 mA: 30 °			$2\theta_{50\%}$ typ. @ 1000 mA: 130 °

**Important information:** Würth Elektronik's design kits contain reference components. These components correspond with the current product development status on the day of supply. Exchange of the reference components to components with up-to-date product development status is not carried out automatically. No liability is taken for the use of these reference components. Therefore, please request new samples prior to releases for series production and product release.

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